

March 4, 2008

**PART 1
SCOPE OF WORK
PROJECT SPECIFIC**

CONTRACT TYPE: Project Specific /Non Task Specific

CONTRACT DATE:

PROJECT NUMBER: IM 0703-341

PROJECT LOCATION: I-70 Silverthorne Interchange

PROJECT CODE: 16755

THE COMPLETE SCOPE OF WORK INCLUDES THIS DOCUMENT (ATTACHED TO THE CONTRACT FOR CONSULTANT SERVICES) AND, IF REFERENCED,

PART 2, Dated: March 4, 2008

PART 3, Dated: March 4, 2008

ATTACHMENTS, Dated: March 4, 2008

NOTE: PART 2, PART 3, AND ATTACHMENTS A, B, AND C ARE INCLUDED AS PART OF THIS DOCUMENT.

**PROJECT SPECIFIC
PART 1
TABLE OF CONTENTS**

<u>Description</u>	<u>Page</u>
Section 1 Project Specific Information	1
Section 2 Project Management and Coordination	3
Section 3 Project Description-(suggested outline)	4
Section 4 Known Existing Features	7
Section 5 Items To Be Furnished by CDOT	7
Section 6 General Information	8
Section 7 Work Activity Assignments	11
Section 8 Submittals	20
Section 9 Contract Conclusion	24

SECTION 1 PROJECT SPECIFIC INFORMATION

1.01 Planned Improvements. The general planned improvement is:

Identify and design modifications to the intersection of Interstate 70 (I-70) and Blue River Parkway (US 6 / US 9).

1.02 Project Goal. This project is intended to produce the following improvements:

- Improved mobility (pedestrian and vehicular)
- Improved safety

1.03 Project Location. This project is located along I-70 (approx. MP 205.0), US 6 (approx. MP 208.7), and US 9 (approx. MP 101.6).

1.04 Project Cost. The design costs of this project are estimated at \$2,500,000.

1.05 Work Duration. The time period for the work described in this scope is approximately 730 calendar days.

1.06 Consultant Responsibility. Though this project is anticipated to be environmentally cleared through the National Environmental Policy Act (NEPA) as a Categorical Exclusion, the consultant will perform an all encompassing scoping of the project and prepare a written recommendation of activities that coincide with the Project's Cost, Goal, and Planned Improvements.

The Consultant will aid the Colorado Department of Transportation (CDOT) in preparation the necessary NEPA documentation to clear the recommended project environmentally.

After gaining Federal Highway Administration (FHWA) and CDOT concurrence on the recommendations, the Consultant is responsible for developing a complete (plans, specifications, and cost estimate) package for advertisement of recommended improvements. The work will included (but not be limited to) the design of a roadway and interchange improvements, structural and retaining wall design, and lighting.

1.07 Work Product. The Consultant work products are:

- Feasibility Report
- Reports (Drainage, Structure Selection, Traffic, and Constructability)
- Traffic Analysis
- Field Inspection Review (FIR) Plans
- Final Office Review (FOR) Plans
- Critical Path Method (CPM) Schedule
- Financial Drawdown Schedule tied to CPM Schedule
- AD Plans, Specifications, Cost Estimate
- 1601 Application

Detailed work product requirements are described in the following sections and in Part 2.

1.08 Work Product Completion. All submittals must be accepted by the CDOT Contract Administrator or their designee.

1.09 Additional Project Information. Additional information regarding this project is included in the following documents:

- I-70 Mountain Corridor Draft Programmatic Environmental Impact Statement (I-70 DPEIS)
- Traffic Impact Studies

Copies of these documents may be obtained from the CDOT Contract Administrator or their designee.

1.10 Scope of Work Organization. Project Scopes of Work are divided into three parts, a project specific section (Part 1), Part 2 which includes general descriptions of preconstruction tasks description, and Part 3 which includes services to be furnished after the design is accepted. Part 1 is attached to the contract. The remaining Parts 2 & 3 and Attachments A, B, and C are included in the scope but are distributed separately from the contract.

This draft scope of work has been carefully reviewed by the Department and reflects a plan of approach based on the known goals. One factor determining the selection of a Consultant is the ability of that consultant to analyze the project goals, evaluate the work elements, and formulate a work plan. This process may produce new approaches or modification to the project work elements. Because of that, all consultants should be aware that the Final Scope of Work for a project will be produced with input from the selected Consultant.

SECTION 2

PROJECT MANAGEMENT AND COORDINATION

2.01 CDOT Contacts. The Contract Administrator for this project is:

Peter Kozinski, P.E.
I-70 Mtn. Corridor Management Team
CDOT, Region 3 - Eagle
P.O. Box 298
Eagle, CO 81631
Phone: 970-328-6385
Fax: 970-328-2368

2.02 Project Coordination. Coordination will be required with, but not limited to, the following known agencies:

- Town of Silverthorne
- Town of Dillon
- Town of Frisco
- Summit County
- Utility Companies (Xcel Energy, Qwest and Comcast)

The Consultant should anticipate that a design that affects an agency will have to be accepted by that agency prior to its acceptance by the Colorado Department of Transportation. Submittals to affected agencies will be coordinated with CDOT. Above is a list of known agencies. It should not be considered as complete.

SECTION 3 PROJECT DESCRIPTION

3.01 Background

The Colorado Department of Transportation and Summit County are proposing improvements to the Silverthorne Interchange located along I-70 (approx. MP 205.0), US 6 (approx. MP 208.7), US 9 (approx. MP 101.6). The project will extend along US 6 & US 9 to the extent necessary to improve the Interchange.

The Consultant shall evaluate existing and future traffic conditions and provide improvement recommendations in a feasibility study. After the feasibility study is complete; logical projects will be identified including interim, shelf and future. Recommendations should include pedestrian access and mobility.

Major project constraints include the Straight Creek, The Blue River, and existing retaining walls. There are existing bridges at I-70 Interchange and The Blue River.

In addition to the interchange improvements, the I-70 ramps shall be evaluated.

CDOT will complete the required environmental processes necessary to determine categorization consistent with the NEPA process. If it is determined that the project qualifies for a Categorical Exclusion (CAT-X), CDOT will complete the Environmental clearance, in which case it is estimated the CAT –X will be completed within 1 -1 ½ years and should maintain a shelf life of 3 -5 years. If it is determined that an EA or an EIS is required, the responsibility for the NEPA process will be determined at that time. Preliminary design is required prior to determine the categorization.

3.02 Project Limits I-70 (approx. MP 205.0), US 6 (approx. MP 208.7), and US 9 (approx. MP 101.6).

3.03 Work Elements

Using the recommendations of the Feasibility Report; develop preliminary and final construction plans, specifications, and cost estimate for advertisement. The work will include but not be limited to the following:

- a. Public Relations/Design Open House Conduct at least one public open house to present the viable alternatives on the improved geometry. From information gathered at this open house and other sources, make modifications to the recommended improvements. Proceed with the final design of the project including any and all work necessary. Conduct monthly design progress meetings with stakeholders (i.e. government agencies, land owners, businesses, etc.)
- b. Environmental Clearances The date of the final environmental clearance is subject to the recommendations of the Feasibility Report. Additional clearances/plans such as the wetland mitigation and erosion control/storm water management plan shall be prepared by consultant.
- c. Survey Consultant shall be responsible for converting the survey into CDOT format. If additional survey is needed, consultant shall be responsible for collecting the data and combining the surveys.
- d. Roadway Design Complete roadway design through advertisement, including all aspects of geometry, walls, signing, lighting etc. Develop a detailed matrix of alternatives; including various configurations, alignments, walls, costs, aesthetics, constructability, etc.
- e. Structural Design Complete structural design for construction plans, including selection of structure type. Develop a very detailed matrix on the structure selection including structure type, span length, number of piers, and cost to assist with the final selection. This matrix will take into account constructability and the visuals impacts

	of the structures selected. Develop photo renderings of alternative.
f. Specialized Design	Complete all specialized design elements necessary to complete the roadway and structural design such as traffic, hydraulics, geotechnical, etc.
g. Geotechnical Design	Complete all necessary on-site investigations and subsurface investigations for the roadway and structure design including deep drilling for the bridges and walls.
h. Administrative Support	Provide clerical and word processing support as well as assist with open house exhibits and meetings.
i. Traffic Control/Construction Phasing	Develop plans and specifications for traffic control and construction phasing (i.e. signs, striping, etc.).
k. Right of Way Support	Develop CDOT compliant ROW plans, identify property and easement owners, determine areas, prepare legal descriptions, and assist with ROW acquisition.
l. Landscape Plans	Develop landscape plans and specifications that combine design criteria such as sight distance with the Town's aesthetic preferences.
m. Context Sensitive Design	Apply the Context Sensitive Solution (CSS) approach developed for the I-70 Mtn. Corridor. Additional public and private meetings may be required.
n. Schedules	Develop and maintain a resource loaded Critical Path Method Schedule with agreed upon milestones. Develop and maintain a drawdown schedule show past and projected expenditures.

SECTION 4 KNOWN EXISTING FEATURES

4.01 Major Structures F-12-S (I-70/US6&9 EB), F-12-R(I-70/US6&9 EB), F-12-Y (Blue River EB) and F-12-X (Blue River WB). Additional minor structures may be impacted.

4.02 Utilities Contact U.N.C.C. at 1-800-922-1987. (Xcel Energy, Qwest and Comcast)

4.03 Irrigation Ditches Unknown if irrigation ditches exist. Location and owners shall be determined by consultant.

4.04 Railroads No know Railroad properties exist; consultant shall verify.

Note: The above is a list of the known features in the area. It should not be considered as complete. The Consultant should be alert to the existence of other possible conflicts.

SECTION 5 ITEMS TO BE FURNISHED BY CDOT

5.01 CDOT Manuals, Specifications, Standards, etc. can be obtained from CDOT Printing and Visual Communications Center (303-757-9214). A moderate fee, determined by document size, will be charged. Electronic Files of applicable CDOT standards and forms specified in this document will be provided free of charge.

5.02 Project Specific Items

As constructed roadway and structure information for:

F-12-S (I-70/US6&9 EB), F-12-R(I-70/US6&9 EB), F-12-Y (Blue River EB) and F-12-X (Blue River WB)

SECTION 6 GENERAL INFORMATION

6.01 Authorization to Proceed. Work will not commence until the written Notice-to-Proceed is issued by the State with certification from the Consultant that the work will be completed within the allotted time. The time charged will be exclusive of time lost for:

- a. Reviews and Approvals.
- b. Delays in not receiving responses/direction.
- c. Work may be required, night or day, on weekends, on holidays, or on split shifts.

CDOT must concur in timed lost reports prior to the time lost delays being subtracted from time charges.

6.02 Project Coordination. The routine working contact will be between the CDOT Project Manager (CDOT/PM) and the Consultant Project Manager (C/PM) as defined in Attachment C. Each Project Manager will provide the other with:

- a. Written synopses or copy of their respective contacts (both by telephone and in person) with others.
- b. Copies of pertinent written communications

6.03 Routine Reporting and Billing. The Consultant will provide the following on a routine basis:

- a. Coordination of all contract activities by the C/PM
- b. The periodic reports and billings required by CDOT Procedural Directive 400.2 (Monitoring Consultant Contracts).
- c. Minutes of all Meetings: The minutes will be completed and will be provided to the CDOT/PM within five (5) working days after the meeting. When a definable task is discussed during a meeting, the minutes will identify the "Action Item", the agency responsible for accomplishing it, and the proposed completion date.
- d. In general, all reports and submittals must be accepted by CDOT prior to their content being utilized in follow-up work effort.

6.04 Personnel Qualifications. The Consultant Project Manager (C/PM), must be approved by the CDOT Contract Administrator. Certain tasks must be done by Licensed Professional Engineers or Professional Land Surveyors who are registered with the Colorado State Board of Registration for Professional Engineers and Land Surveyors. National Institute for

Certification in Engineering Technology may be required for project inspectors and testers (if applicable).

6.05 CDOT Computer/Software Information. The primary hardware used by CDOT is a DEC-VAX system, and the types of software are:

Earthwork-	InRoads
Drafting	MicroStation
Survey-	InRoads TMOSS (developed by CDOT to convert topographic survey to design format)
Geometry-	CDOT COGO (Coordinate Geometry)
Bridge-	Staff Bridge software shall be used in either design or design check
Estimating-	Trns*port (to be handled by CDOT). Bid items to be provided to CDOT in a compatible file format (i.e. Estimator) which will be imported into Trns*port.
Specifications-	Microsoft Word
Scheduling-	MS Project
Misc.-	MS Works, Excel, Power Point

6.06 Computer Data Compatibility. CDOT presently utilizes two data formats which Consultants shall be required to use for submitting survey, photogrammetry, and design data: InRoads TMOSS (Topography) Modeling Survey System and InRoads.

The data format used by the Consultant to submit surveying and photogrammetric data shall be as determined by the CDOT/PM in coordination with the respective Region PLS. The data format for submitting design computer files shall be compatible with the CDOT InRoads program. Preliminary and final design shall be submitted to CDOT electronically.

The Consultant shall immediately notify the CDOT/PM if the firm is unable to produce the desired format for any reason and cease work until the problem(s) is (are) resolved.

Refer to Part 2 Section 2, Submittals, for additional information regarding the InRoads and InRoads TMOSS formats and the acceptable transmittal media.

6.07 Project Design Data and Standards

- a. General. Attachment A is a list of technical references applicable to CDOT work. The Consultant is responsible for ensuring compliance with the listed references. Conflicts in criteria shall be resolved by the CDOT/PM.

- b. Specific Criteria. Attachment B is a list of specific project criteria. The list is comprehensive and may include items that are not required for a tasks defined in this scope. The Consultant shall submit the pertinent criteria to the CDOT/PM at one of the periodic progress meetings prior to initiating design.
- c. Construction Materials/Methods. The materials specified for construction and any indicated construction methods will be selected to minimize the initial construction and long-term maintenance cost to the State of Colorado. Non-typical construction materials and methods must be approved in writing by CDOT.

SECTION 7 WORK ACTIVITY ASSIGNMENTS

This list establishes the consultant's individual task responsibility. The consultant shall maintain the ability to perform all work tasks which are indicated below by an 'X' mark in the consultant column, in accordance with the forms and conditions of Part 2, Part 3, and the applicable CDOT standards. Selected work tasks shall be assigned only after coordination and consultation with CDOT. The Consultant is also responsible for coordinating the required work schedule for those tasks accomplished by CDOT and other agencies.

PRECONSTRUCTION - See Part 2 for Task Descriptions.

	<u>CDOT/OTHER</u>	<u>CONSULTANT</u>
A. Project Initiation and Continuing Requirements:		
1. Initial Project Meeting	_____	_____X_____
2. Review Environmental Mitigation Requirements	_____X_____	_____X_____
3. Independent Design Review	_____	_____X_____
4. Project Schedule	_____	_____X_____
5. Develop Design Criteria	_____	_____X_____
6. Initiate Survey	_____	_____X_____
7. Right-of-Entry and Permits	_____	_____X_____
8. Traffic Control	_____	_____X_____
9. Initial Submittals	_____	_____X_____
10. Progress Meetings	_____	_____X_____
11. Structure Review Meetings	_____	_____X_____
12. Project Management	_____	_____X_____
B. Project Development:		
1. Communication and Consensus Building		
a. Contact List	_____	_____X_____
b. Public Notices/Advertisements	_____	_____X_____
c. General Meetings	_____	_____X_____
(1) Small Group	_____	_____X_____
(2) General Public	_____	_____X_____
(3) Project Review	_____	_____X_____
d. Communication Aids	_____	_____X_____

		<u>CDOT/OTHER</u>	<u>CONSULTANT</u>
	(1) Graphics Support	_____	<u> X </u>
	(2) Newsletter	_____	<u> X </u>
	(3) Wall Displays	_____	<u> X </u>
	(4) Study Model	_____	<u> X </u>
	(5) Local Office	_____	_____
2.	Project Review Team	_____	<u> X </u>
3.	Route Location Surveys	_____	<u> X </u>
a.	Presurvey Conference	_____	<u> X </u>
b.	Survey Data Research	_____	<u> X </u>
c.	Secure Rights of Entry	_____	<u> X </u>
d.	Project Control Survey		
	(1) Locate or establish HARN Stations	<u> X </u>	<u> X </u>
	(2) Monumentation	<u> X </u>	<u> X </u>
	(3) Project Control	<u> X </u>	<u> X </u>
e.	Photogrammetry		
	(1) Camera Calibration Report	_____	_____
	(2) Flight Plan	_____	_____
	(3) Flight	_____	_____
	(4) Contact Prints	_____	_____
	(5) Negatives	_____	_____
	(6) Enlargements	_____	_____
	(7) Photo Index	_____	_____
	(8) Supplemental Survey (wing points)	_____	_____
f.	Supplemental Surveying	_____	<u> X </u>
g.	Accuracy Tests	_____	<u> X </u>
h.	Review (by Registered Professional Land Surveyor)	_____	<u> X </u>
i.	Reviewed (by Registered Professional Land Surveyor)	_____	_____

	<u>CDOT/OTHER</u>	<u>CONSULTANT</u>
4. Conceptual Design		
a. Urban Planning and Aesthetics	<u> </u>	<u> X </u>
b. System Feasibility for Interchanges	<u> </u>	<u> X </u>
c. Alternatives Analysis	<u> </u>	<u> X </u>
d. Final Alternatives Reports	<u> </u>	<u> X </u>
e. Interchange Approval Process	<u> </u>	<u> X </u>
5. Data Gathering Analysis, and Mitigation Development		
a. Traffic Related		
(1) Traffic Study	<u> </u>	<u> X </u>
(2) Accident Study	<u> </u>	<u> X </u>
(3) Noise Study	<u> </u>	<u> X </u>
(4) Air Quality	<u> </u>	<u> X </u>
(a) Air Quality Monitoring	<u> </u>	<u> X </u>
(b) Air Quality Analysis	<u> </u>	<u> X </u>
(5) Alternate Transportation Sys.	<u> </u>	<u> X </u>
b. Archaeology		
(1) Gather Data & Analysis	<u> X </u>	<u> X </u>
(2) Mitigation Implementation	<u> X </u>	<u> X </u>
c. Paleontology		
(1) Gather Data & Analysis	<u> X </u>	<u> X </u>
(2) Mitigation Implementation	<u> X </u>	<u> X </u>
d. Initial Geology Investigation	<u> X </u>	<u> X </u>
e. Water Quality		
(1) Quality Analysis	<u> X </u>	<u> X </u>
(2) Quality Monitoring	<u> X </u>	<u> X </u>
f. Ecological Assessment	<u> X </u>	<u> X </u>
g. Historical		
(1) Historical Bridge Clearance	<u> X </u>	<u> X </u>
(2) Historical Study & Clearance	<u> X </u>	<u> X </u>

	<u>CDOT/OTHER</u>	<u>CONSULTANT</u>
h. Floodplain and Drainage Assessment	_____	<u> x </u>
i. Right-of-Way		
(1) Early ROW	_____	<u> x </u>
(2) ROW Review	<u> x </u>	<u> x </u>
j. 4(f)/6(f) Activity		
(1) Evaluation	<u> x </u>	<u> x </u>
(2) Clearance/Concurrence	<u> x </u>	<u> x </u>
k. Threatened and/or Endangered Species		
(1) Determination of Presence	<u> x </u>	<u> x </u>
(2) Implement Mitigation	<u> x </u>	<u> x </u>
l. Wetlands		
(1) Wetlands Determination	<u> x </u>	<u> x </u>
(2) Wetlands Findings Report	<u> x </u>	<u> x </u>
m. Hazardous Materials		
(1) Field Search	<u> x </u>	<u> x </u>
(2) Research	<u> x </u>	<u> x </u>
(3) Conduct in-situ tests	<u> x </u>	<u> x </u>
(4) Analyze and Assess Impacts	<u> x </u>	<u> x </u>
n. Existing Roadway/Major Structure	_____	<u> x </u>
o. Construction Requirements	_____	<u> x </u>
p. Aesthetic Considerations	_____	<u> x </u>
q. Utilities	_____	<u> x </u>
r. Economics	_____	_____
s. Farmlands	_____	_____
t. Energy Usage	_____	_____
6. Environmental Assessment (EA) Process	_____	_____
7. Environmental Impact Study (EIS) Process	_____	_____
8. Design Report Process	_____	<u> x </u>
9. Obtain Permits	_____	<u> x </u>

	<u>CDOT/OTHER</u>	<u>CONSULTANT</u>
C. Preliminary Design:		
1. Design Field Surveys		
a. Presurvey Conference	<u>x</u>	<u>x</u>
b. Survey Data Research	<u>x</u>	<u>x</u>
c. Secure Rights of Entry	<u>x</u>	<u>x</u>
d. Project Control Survey		
(1) Locate or Establish HARN Stations	<u>x</u>	<u>x</u>
(2) Monumentation	<u>x</u>	<u>x</u>
(3) Local Project Control	<u>x</u>	<u>x</u>
e. InRoads TMOSS Survey	<u>x</u>	<u>x</u>
f. Terrain Survey	<u>x</u>	<u>x</u>
g. Utility Survey	<u>x</u>	<u>x</u>
h. Hydraulic Survey	<u> </u>	<u>x</u>
i. Material Survey	<u> </u>	<u>x</u>
j. Supplemental Surveying	<u> </u>	<u>x</u>
k. Survey Report	<u>x</u>	<u>x</u>
l. Accuracy Tests	<u>x</u>	<u>x</u>
m. Review (by Registered Professional Land Surveyor)	<u>x</u>	<u>x</u>
n. Wetland Boundary	<u> </u>	<u>x</u>
2. Traffic Engineering	<u> </u>	<u>x</u>
3. Materials Engineering	<u> </u>	<u>x</u>
a. Preliminary Soil Investigation	<u> </u>	<u>x</u>
b. Pavement Rehabilitation	<u> </u>	<u>x</u>
c. New Pavement Structure	<u> </u>	<u>x</u>
d. Pavement Justification	<u> </u>	<u>x</u>
e. Pavement Design Report	<u> </u>	<u>x</u>
f. Existing Bridge Investigation	<u> </u>	<u>x</u>
g. Foundation Investigation	<u> </u>	<u>x</u>
4. Hydrology/Hydraulics Engineering		
a. Hydrology	<u> </u>	<u>x</u>
b. Hydraulics	<u> </u>	<u>x</u>
c. Preliminary Hydraulics Report	<u> </u>	<u>x</u>

		<u>CDOT/OTHER</u>	<u>CONSULTANT</u>
5.	Utility Coordination		
a.	Location Maps	_____	<u>X</u>
b.	Reviews and investigations	_____	<u>X</u>
	(1) "Potholing"-Excavation	_____	<u>X</u>
	(2) "Potholing"-Surveying Utility Locations	_____	<u>X</u>
c.	Relocation recommendations	_____	<u>X</u>
d.	Ditch Company coordination	_____	<u>X</u>
6.	Roadway Design and Roadside Development		
a.	Roadway Design	_____	<u>X</u>
b.	Roadside Development	_____	<u>X</u>
	(1) Guardrail and delineator	_____	<u>X</u>
	(2) Landscaping	_____	<u>X</u>
	(3) Sprinkler Systems/Liquid Anti-Icing	_____	<u>X</u>
	(4) Sound Barriers	_____	<u>X</u>
	(5) Bike paths	_____	<u>X</u>
	(6) Truck Escape Ramps	_____	_____
	(7) Rest Areas	_____	_____
	(8) Safety analysis	_____	<u>X</u>
c.	Lighting Plan	_____	<u>X</u>
7.	Right-of-Way		
a.	Research	_____	<u>X</u>
b.	Ownership Map	_____	<u>X</u>
8.	Major Structural Design		
a.	Structural Data Collection	_____	<u>X</u>
b.	Structure concept study	_____	<u>X</u>
c.	Value Engineering	_____	<u>X</u>
d.	Structure Selection Report	_____	<u>X</u>
e.	Foundation Investigation Request	_____	<u>X</u>
9.	Construction Phasing Plan	_____	<u>X</u>
10.	Preparation for the FIR	_____	<u>X</u>
11.	Field Inspection Review	_____	<u>X</u>
12.	Post FIR Revisions	_____	<u>X</u>

		<u>CDOT/OTHER</u>	<u>CONSULTANT</u>
D.	Final Design:		
1.	Project Review	_____	<u> X </u>
2.	Design Coordination	_____	<u> X </u>
3.	Utility Coordination	_____	<u> X </u>
4.	Hydraulic Design	_____	<u> X </u>
	a. Data Review	_____	<u> X </u>
	b. Storm Water Pollution Prevention Plan	_____	<u> X </u>
	c. Major Structure Channel Design	_____	<u> X </u>
	d. Final Hydraulics Report	_____	<u> X </u>
5.	Interim Plans		
	a. Initiate ROW Authorization Process	<u> X </u>	<u> X </u>
	b. Final Utility Plans	_____	<u> X </u>
	c. Final Railroad Plans	_____	<u> X </u>
6.	Right-of-Way		
	a. ROW Plans Content	<u> X </u>	<u> X </u>
	b. Title Insurance and Closing Services	<u> X </u>	<u> X </u>
	c. Authorization Plan	<u> X </u>	<u> X </u>
	d. Appraisal Staking	<u> X </u>	<u> X </u>
	e. ROW Plan Revisions (During Negotiations)	<u> X </u>	<u> X </u>
7.	Materials Engineering		
	a. Materials Data	_____	<u> X </u>
	b. Stabilization validity	_____	<u> X </u>
	c. Stabilization Plan	_____	<u> X </u>
8.	Traffic Engineering		
	a. Permanent Signing/Pavement Marking Plans	_____	<u> X </u>
	b. Signalized Intersections	_____	<u> X </u>
	c. Traffic Control Plan	_____	<u> X </u>
9.	Roadside Planning		
	a. Landscaping	_____	<u> X </u>
	b. Other	_____	_____

	<u>CDOT/OTHER</u>	<u>CONSULTANT</u>
(1) Sprinkler systems/Liquid Anti-Icing	_____	<u> X </u>
(2) Bike paths	_____	<u> X </u>
(3) Sound barriers	_____	<u> X </u>
(4) Truck escape ramps	_____	_____
(5) Rest Areas	_____	_____
(6) Guardrail and delineator	_____	<u> X </u>
(7) Safety analysis	<u> X </u>	<u> X </u>
c. Lighting Plans	_____	<u> X </u>
10. Roadway Design	_____	<u> X </u>
11. Final Major Structural Design		
a. Structure Final Design	_____	<u> X </u>
b. Preparation of Structure Plans and Specifications	_____	<u> X </u>
c. Independent Design, Detail, and Quantity Check	_____	<u> X </u>
d. Bridge Rating and Field Packages	_____	<u> X </u>
e. Structure Final Review Plans and Specifications		
12. Construction Phasing Plan	_____	<u> X </u>
13. Plan Preparation for FOR	_____	<u> X </u>
14. Final Office Review	_____	<u> X </u>
15. Construction Plan Package	_____	<u> X </u>
E. Corridor Management Support:		
1. Design Control	_____	_____
2. Information Services	_____	_____
3. Budget Planning Support	_____	_____
F. Value Engineering	_____	_____

	<u>CDOT/OTHER</u>	<u>CONSULTANT</u>
SERVICES AFTER DESIGN - See Part 3 for Task Descriptions.		
A. Review of Shop Drawings	_____	_____
B. Construction Services		
1. Coordinate Schedule	_____	_____
2. Provide field observation		
a. Pile driving/caisson drilling	_____	_____
b. Major concrete pours	_____	_____
c. Placement of girders	_____	_____
d. Splicing of girders	_____	_____
e. Post-tensioning duct and anchorage placement	_____	_____
f. Post-tensioning operations	_____	_____
3. Technical assistance	<u> x </u>	<u> x </u>
4. Submittals		
a. Diary	_____	_____
b. Documentation/justification	_____	_____
c. Progress reports	_____	_____
d. Calculations, drawings, and specifications	_____	_____
e. Daily time sheets	_____	_____
C. Post Design Plan Modifications	<u> x </u>	<u> x </u>
D. Post Construction Services:		
1. Final earthwork determination	_____	_____
2. As-built plans	_____	_____
3. Revisions to Right-of-Way Plans (Excess Land)	_____	_____
4. Monument ROW	_____	_____
5. Set Property Corners (Remainders)	_____	_____
6. Deposit ROW Plans	_____	_____
E. Construction Engineering	_____	_____

SECTION 8 SUBMITTALS

		<u>CDOT/OTHER</u>	<u>CONSULTANT</u>
A. Project Initiation and Continuing Requirements:			
Part 1			
6.01.b.	Periodic Reports & Billings	_____	<u> X </u>
6.01 c.	Meeting Minutes	_____	<u> X </u>
Part 2			
A.4	Project Schedule	_____	<u> X </u>
A.5	Completed Specific Design	_____	<u> X </u>
	Criteria (Attachment B)	_____	<u> X </u>
A.6	Survey Plan	_____	<u> X </u>
A.7	Permissions to Enter (Form 730)	_____	<u> X </u>
A.8	Traffic Control Plan	_____	<u> X </u>
A.9	Initial Submittal of InRoads TMOSS		
	and/or MOSS Compatible Data	_____	<u> X </u>
A.9	Initial Submittal of an		
	Original Plan Sheet	_____	<u> X </u>
B. Project Development:			
B.1.a.	Public Communication Contact List	_____	<u> X </u>
B.3.	Route Location Survey:		
	<input type="checkbox"/> Electronic Survey Files	_____	<u> X </u>
	<input type="checkbox"/> Survey InRoads TMOSS Data	_____	<u> X </u>
	<input type="checkbox"/> Monument Records	_____	<u> X </u>
	<input type="checkbox"/> Control & Monumentation Plan Sheets	_____	<u> X </u>
	<input type="checkbox"/> Aerial Photography Index Map Sheets	_____	_____
	<input type="checkbox"/> Aerial Photography Contact Prints	_____	_____
	<input type="checkbox"/> Aerial Photography Negatives	_____	_____
	<input type="checkbox"/> Photogrammetry		
	Electronic Data	_____	_____
	Base Map Sheets	_____	_____
	Base Map Index Sheet(s)	_____	_____
	<input type="checkbox"/> Rectified Photos with Mylar Originals	_____	_____

		<u>CDOT/OTHER</u>	<u>CONSULTANT</u>
B.4.b.	System Feasibility Study	_____	_____
B.4.d.	Final Alternatives Report	_____	_____
B.4.e.	System Feasibility Study	_____	_____
B.5.a.(3)(d)	Noise Assessment Report	_____	<u> X </u>
B.5.a.(4)(b)	Air Quality Report	_____	<u> X </u>
B.5.b.(2)	Archaeology Survey Report & Mitigation Plan	<u> X </u>	<u> X </u>
B.5.c.(2)	Paleontology Preliminary Report & Mitigation Plan	<u> X </u>	<u> X </u>
B.5.e.(1)	Water Quality Report	_____	<u> X </u>
B.5.f.(5)	Ecology Report	<u> X </u>	<u> X </u>
B.5.g.(1)	Historical Bridge Clearance or Mitigation Plan	<u> X </u>	<u> X </u>
B.5.g.(2)	Historical Cultural Resources Report	<u> X </u>	<u> X </u>
B.5.h.(5)	Floodplain and Drainage Assessment Report & Mitigation Plan	<u> X </u>	<u> X </u>
B.5.i.(2)(b)	ROW Report	<u> X </u>	<u> X </u>
B.5.j.(2)(e)	4(f)/6(f) Mitigation Plan	<u> X </u>	<u> X </u>
B.5.k.(1)(c)	Threatened and/or Endangered Species Assessment	<u> X </u>	<u> X </u>
B.5.l.(2)(b)	Wetlands Findings Report	<u> X </u>	<u> X </u>
B.5.m.(4)	Hazardous Materials Findings Environmental Assessment (EA)	<u> X </u>	<u> X </u>
B.6.a.(3)	Preliminary EA	_____	_____
B.6.d.(3)	Certified Verbatim Transcript	_____	_____
B.6.e.	Finding of No Significant Impact (FONSI)	_____	_____
	Environmental Impact Statement	_____	_____
B.7.a.(2)	Draft EIS	_____	_____
B.7.d.(3)	Certified Transcript of Meeting	_____	_____
B.7.e.	Final EIS	_____	_____
	Design Report Process	_____	_____
B.8.b.	Preliminary Design Report	_____	<u> X </u>
B.8.e.	Final Design Report	_____	<u> X </u>

		<u>CDOT/OTHER</u>	<u>CONSULTANT</u>
Permits:			
B.9.a.	<input type="checkbox"/> 401 Permit	<u> X </u>	<u> X </u>
B.9.b.	<input type="checkbox"/> 402 Permit	<u> X </u>	<u> X </u>
B.9.c.	<input type="checkbox"/> 404 Permit	<u> X </u>	<u> X </u>
B.9.d.	<input type="checkbox"/> Wildlife Certification	<u> X </u>	<u> X </u>
B.9.e.	<input type="checkbox"/> NPDES Storm Water Permit	<u> X </u>	<u> X </u>

C. Preliminary Design:

C.1.	Electronic Survey	<u> </u>	<u> X </u>
C.2.g.	Traffic Data & Recommendations	<u> </u>	<u> X </u>
C.3.a.(4)	Soils Investigation Report	<u> </u>	<u> X </u>
C.3.e.	Pavement Design Report	<u> </u>	<u> X </u>
C.3.f.	Existing Bridge Condition Report	<u> </u>	<u> X </u>
C.3.g.(6)	Foundation Investigation Report	<u> </u>	<u> X </u>
C.3.g.(7)	Engineering Geology Plan Sheet(s)	<u> </u>	<u> X </u>
C.4.c.	Preliminary Hydraulics Report	<u> </u>	<u> X </u>
C.5.c.	Utility Relocation		
	Recommendations	<u> </u>	<u> X </u>
C.5.d.	Ditch Structure Plans	<u> </u>	<u> X </u>

Part 2

Right-of-Way:

C.7.a.	Memoranda of Ownership	<u> </u>	<u> X </u>
C.7.b.	Preliminary Ownership Map		
	(include in the FIR plan set)	<u> </u>	<u> X </u>
C.8.c.	Structural Selection Report	<u> </u>	<u> X </u>
C.8.d.	Foundation Investigation		
	Request		
C.10.c	Preliminary Cost Estimate	<u> </u>	<u> X </u>
C.10.d.	FIR Plan Set	<u> </u>	<u> X </u>
C.11.e.	List of Deviations from Standard		
	Design Criteria	<u> </u>	<u> X </u>
C.12.	Corrected FIR Plan Set	<u> </u>	<u> X </u>
D.4.d.	Final Hydraulics Report	<u> </u>	<u> X </u>

		<u>CDOT/OTHER</u>	<u>CONSULTANT</u>
D. Final Design:			
D.5.a.	ROW Authorization Plans	<u> X </u>	<u> X </u>
D.5.b.	Final Utility Plan Set	<u> </u>	<u> X </u>
D.5.c.(4)	Final Railroad Plan Set	<u> </u>	<u> X </u>
D.5.c.(5)	PUC Exhibit	<u> </u>	<u> X </u>
Right-of-Way:			
D.6.b.(4)	Area Calculations	<u> X </u>	<u> X </u>
D.6.b.(5)	Authorization Plans	<u> X </u>	<u> X </u>
D.6.b.(6)	Legal Descriptions	<u> X </u>	<u> X </u>
D.7.c.	Stabilization Plan	<u> </u>	<u> X </u>
Traffic Engineering:			
D.8.a.	Signing/Pavement Marking Plans	<u> </u>	<u> X </u>
D.8.b.	Signal Warrants	<u> </u>	<u> X </u>
D.8.b.	Signalized Intersection Plans	<u> </u>	<u> X </u>
D.8.c.	Traffic Control Plan	<u> </u>	<u> X </u>
	Roadside Planning		
D.9.a.(6)	Landscaping Plans & Specs.	<u> </u>	<u> X </u>
D.9.a.(7)	Certification of plant Availability	<u> </u>	<u> X </u>
D.9.b.	Sprinkler System Plans & Specs.	<u> </u>	<u> X </u>
D.9.b.	Bike path Plans & Specs.	<u> </u>	<u> X </u>
D.9.b.	Sound Barrier Plans & Specs.	<u> </u>	<u> </u>
D.9.b.	Truck Escape Ramp Plans & Specs.	<u> </u>	<u> </u>
D.9.b.	Rest Area Plans & Specs.	<u> </u>	<u> </u>
D.9.c.	Lighting Plans	<u> </u>	<u> X </u>
D.11.c.	Structure Final Review Plans and Special Provisions	<u> </u>	<u> X </u>
D.12.	Construction Phasing Plan	<u> </u>	<u> X </u>
D.13.d.	FOR Plan Sheets and Special Provisions	<u> </u>	<u> X </u>
D.13.e.	FOR Cost Estimate	<u> </u>	<u> X </u>
D.15.a.	FOR Revised Plans and Special Provisions	<u> </u>	<u> X </u>
D.15.c.	Final Review Revisions	<u> </u>	<u> X </u>

Construction Plan Package:

D.15.d.(1)	Roadway Design Data Submittal	_____	<u> X </u>
D.15.d.(2)	Major Structure Design Final Submittal	_____	<u> X </u>
D.15.e.	Record Plan Sets	_____	<u> X </u>

SECTION 9
CONTRACT CONCLUSION

9.01 Supplemental Work. It is anticipated that this contract will be supplemented for:

- Completion of the "as-built" plans and/or final ROW plans

9.02 Contract Completion. This Contract will be satisfied upon acceptance of the following items if applicable:

- Project Schedule
- Project Progress Meeting Minutes
- Traffic Control Plan(s)
- All Documents Found In Research
- All Permission to Enter Forms
- Monumented & Surveyed Ground Control Diagram(s)
- Legally Deposited Control Survey Diagram(s)
- Digital InRoads TMOSS Data
- Ownership Map
- Original Field Notes
- Survey Report (Including monument recovery forms)
- Monumented and Sealed ROW Plans
- Legally Deposited Survey Plans
- Legal Descriptions (Signed and Sealed)

and the completion of review of contract submittals.